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PTO/SB/021 (02-02)

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TRANSMITTAL FORM

(To be used for all correspondence after initial filing)

Total Number of Pages in This Submission

6

Application Number	10/588,612
Filing Date	February 4, 2005
First Named Inventor	Yasuo SUDA
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	247322003700

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form - 1 pg IN DUPL	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
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Date	March 15, 2007	

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SF-2284721

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S./

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Patent

Docket No. 247322003700

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Yasuo SUDA et al.

Serial No.: 10/588,612

Filing Date: February 4, 2005

For: LINKER COMPOUND, LIGAND CONJUGATE, AND PRODUCTION METHODS THEREOF

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

MS: AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of foreign documents and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

This Supplemental Information Disclosure Statement is submitted:

- With the application; accordingly, no fee or separate requirements are required.
- Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.

sf-2279431

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- Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
- A fee is required. A check in the amount of __ is enclosed.
- A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
- A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is believed to be due.
- After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
- A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of __ is enclosed.
- A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other

fees due in connection with the filing of this document to Deposit Account No. 03-1952
referencing 247322003700.

Dated: March 5, 2007

Respectfully submitted,

By Michael R. Ward
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MAR 20 2007

ALTERNATIVE TO PTO/SB/08A/B (09/06)

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2	Attorney Docket Number
				247322003700

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)	MM-DD-YYYY		
1.	US-2006/0030699-A1		02-09-2006	Suda	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number-Kind Code ³ (if known)	MM-DD-YYYY		T ⁴
2.	JP-2002080488		03-19-2002	University of Osaka	
3.	JP-2004157108		06-03-2004	Japan Science and Technology & Univ Kagoshima	

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
4.	Plant, A.L. et al. (1995). "Phospholipid/Aldanethiol Bilayers for Cell-Surface Receptor Studies by Surface Plasmon Resonance," <i>Analytical Biochemistry</i> , 226:342-348.		
5.	Liedberg, B. et al. (1995). "Biosensing with surface plasmon resonance-how it all started," <i>Biosensors & Bioelectronics</i> 10:i-ix.		
6.	Horan, N. et al. (1999). "Nonstatistical binding of a protein to clustered carbohydrates," <i>PNAS</i> , 96(21):11782-11786.		
7.	Arao, Akio et al. (2001). "Synthesis of a conjugate having heparin partial structure and a distal disulfide group and its application to chip technology," <i>Chemical Society of Japan, Tentative Lecture Proceedings II in the 79th Spring Meeting</i> , March 15, 2001, 3 pages (4G305).		
8.	Hayashi et al. (2001). "Assembly of saccharide by multi-functional linker and application to surface plasmon resonance analysis and affinity chromatography," <i>Tentative Lecture Proceedings, Chemical Society of Japan</i> , volume 83, 3 pages.		
9.	Fazio, F. et al. (2002). "Synthesis of Sugar Arrays in Microtiter Plate," <i>J. Am. Chem. Soc.</i> , 124:14397-14402.		
10.	Fukui, S. et al. (2002). "Oligosaccharide microarrays for high-throughput detection and specificity assignments of carbohydrate-protein interactions," <i>Nature Biotechnology</i> , 20:1011-1017.		
11.	Housman, B. et al. (2002). "Carbohydrate Arrays for the Evaluation of Protein Binding and Enzymatic Modification," <i>Chemistry & Biology</i> , 9:443-454.		
12.	Wang, D. et al. (2002). "Carbohydrate microarrays for the recognition of cross-reactive molecular markers of microbes and host cells," <i>Nature Biotechnology</i> , 20:275-281.		
13.	Hayashi et al. (2003). "Synthesis, designed assembly and biotinylation of sulfated oligosaccharide and its application to surface plasmon resonance," <i>Tentative Lecture Proceedings, Chemical Society of Japan</i> , 3 pages.		
14.	Arao, A. et al. "Analysis of Binding Interaction Between Glycosaminoglycans and Proteins"		

Examiner Signature Taofiq Solola/ sf-2277656	Date Considered	10/19/2009
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S./

Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/588,612
				Filing Date	February 4, 2005
				First Named Inventor	Yasuo SUDA
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number 247322003700	

	Using Surface Plasmon Resonance,"Annual Meeting Syllabus of the Japanese Society of Carbohydrate Research, volume 22, 4 pages.	
15.	Park, S. et al. (2004). "Carbohydrate Chips for Studying High-Throughput Carbohydrate-Protein Interactions," J. Am. Chem. Soc., 126:4812-4819.	
16.	Kato, M. et al. (2004). "Using Model Substrates To Study the Dependence of Focal Adhesion Formation on the Affinity of Integrin-Ligand Complexes," Biochemistry, 43:2699-2707.	
17.	Suda, Y. (2004). "Sugar Chip: Novel Bio Device for Finding Out Biofunction of Oligosaccharides," Polymer Preprints, Japan, volume 52, 11 pages.	
18.	Ratner, D.M. et al. (2004). "Probing Protein—Carbohydrate Interactions with Microarrays of Synthetic Oligosaccharides," ChemBioChem, 5:379-383.	
19.	Feizzi, T. et al. (2004). "Oligosaccharide microarrays to decipher the glycol code," Nature, 5:582-588.	
20.	Karamanska, R. et al. (2005). "Thioclic acid amides: convenient tethers for achieving low nonspecific protein binding to carbohydrates presented on gold surfaces," Chem. Commun., pp. 3334-3336.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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